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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/774,834	02/09/2004	Yoshiharu Hirakata	0553-0276-01	9766
75	90 10/02/2006		EXAM	INER
COOK, ALEX, McFARRON, MANZO,			DUDEK, JAMES A	
CUMMINGS &	MEHLER, LTD.			
SUITE 2850			ART UNIT	PAPER NUMBER
200 WEST ADAMS STREET			2871	····
CHICAGO, IL	60606			

DATE MAILED: 10/02/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

			\mathcal{N}			
	Application No.	Applicant(s)				
	10/774,834	HIRAKATA ET AL.				
Office Action Summary	Examiner	Art Unit				
	James A. Dudek	2871				
The MAILING DATE of this communication a Period for Reply	ppears on the cover sheet	with the correspondence addr	ess			
A SHORTENED STATUTORY PERIOD FOR REP WHICHEVER IS LONGER, FROM THE MAILING - Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory perion. - Failure to reply within the set or extended period for reply will, by state Any reply received by the Office later than three months after the mail earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUN 1.136(a). In no event, however, may be will apply and will expire SIX (6) Mu tute, cause the application to become	IICATION. a reply be timely filed ONTHS from the mailing date of this comman ABANDONED (35 U.S.C. § 133).				
Status						
1)⊠ Responsive to communication(s) filed on 9/1	9/06.					
	nis action is non-final.					
3) Since this application is in condition for allow	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims						
4) ☐ Claim(s) 18-56 is/are pending in the applicate 4a) Of the above claim(s) See Continuation S 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 20,22,26,28,32,34,38,41,43,47,49,57) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and	<u>Sheet</u> is/are withdrawn from 53 and 55 is/are rejected.	n consideration.				
Application Papers						
9)☐ The specification is objected to by the Exami	ner.					
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the	<u>-</u>	• • •				
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority docume 2. Certified copies of the priority docume 3. Copies of the certified copies of the priority docume application from the International Bure * See the attached detailed Office action for a li	ents have been received. ents have been received in riority documents have been eau (PCT Rule 17.2(a)).	Application No. <u>09/949,415</u> . en received in this National St	tage			
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/0 Paper No(s)/Mail Date	Paper N	v Summary (PTO-413) o(s)/Mail Date If Informal Patent Application (PTO-1	52)			

Continuation of Disposition of Claims: Claims withdrawn from consideration are 18,19,21,23-25,27,29-31,33,35-37,39,40,42,44-46,48,54 and 56.

Art Unit: 2871

DETAILED ACTION

Status of Finality

The finality of the previous office action is withdrawn. A new final rejection follows.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

Claims 20, 22, 26, 28, 32, 34, 38, 41, 43, 47, 49, 53 and 55 are rejected under 35 U.S.C. 103(a) as being unpatentable over US 6100954 A (954) in view of US 6633356 B1 (356).

Per claim 20, 954 teaches an LCD comprising at least one TFT over a substrate [111]; at least one gate wiring over the substrate [aluminum electrode 113] and electrically connected with a gate electrode [also 113 as shown in figure 9]; at least one source wiring over the substrate [123] and electrically connected with a semiconductor film [119]; a first interlayer insulating film over the at least one gate wiring and the at least one source wiring [179 taught as either organic or inorganic]; and a second interlayer insulating film formed over the first interlayer insulating film [159]. 954 lacks the at least one convex portion overlapping with the source wiring and the pixel electrode. However, 356 teaches an organic photosensitive resin film or

inorganic convex bump 128 that overlaps the source wiring and pixel electrode for improving contrast/viewing angle. Regarding the color filter, see the paragraph bridging columns 1-2.

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Per claim 22, 954 lacks the leveling film on the color filter substrate. However, it was well known to use level films to protect the color filters and smooth the color filter surface. Accordingly, it would have been obvious to one of ordinary skill in the art at the time of invention.

Regarding the taper angle of claims 32 and 34, the bump is curved and thus less the 90 degree taper angle.

Regarding the 954 being reflective, 954 lack a teaching that the cell is reflective. However it was notoriously well known to use reflective pixels to decrease power consumption.

Accordingly, it would have been obvious to one of ordinary skill at the time of invention.

Conclusion

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Response to Arguments

Applicant's arguments with respect to the rejected claims have been considered but are moot in view of the new ground(s) of rejection.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to James A. Dudek whose telephone number is 571-272-2290. The examiner can normally be reached on 9:00-5:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David Nelms can be reached on 571-272-1787. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

James A. Dudek Rrimary Examiner Art Unit 2871